User: Chris Perry
Analysis ID: 49521

Tank ID: 6369

Date: 05.08.2019

Measurement	Value	Nominal value
Carbonate hardness:	8.44 °dKH	7.5 °dKH
Salinity:	34.81 PSU	35 PSU

Base elements	Value	Ideal value	Difference	Status
Salinity (NaCl)	34.81 PSU	35.00 PSU	-0.19 PSU	✓
Carbonate hardness	8.44 °dKH	7.50 °dKH	+0.94 °dKH	✓

Major elements	Value	Ideal value	Difference	Status
Chloride	19148 mg/l	19691 mg/l	-543.00 mg/l	✓
Sodium	11241 mg/l	10940 mg/l	+301.5 mg/l	✓
Magnesium	1318 mg/l	1308 mg/l	+10.24 mg/l	✓
Sulfur	1128 mg/l	914.9 mg/l	+213.1 mg/l	↑
Calcium	415.2 mg/l	418.7 mg/l	-3.48 mg/l	✓
Potassium	397.2 mg/l	405.8 mg/l	-8.55 mg/l	✓
Bromine	44.54 mg/l	66.63 mg/l	-22.09 mg/l	↓
Strontium	12.52 mg/l	7.96 mg/l	+4.56 mg/l	↑
Boron	4.42 mg/l	4.38 mg/l	+0.04 mg/l	✓
Fluorine	0.62 mg/l	1.29 mg/l	-0.67 mg/l	↓

Minor elements	Value	Ideal value	Difference	Status
Lithium	294.2 µg/l	169.1 µg/l	+125.1 µg/l	✓
Silicon	201.2 µg/l	99.45 µg/l	+101.8 µg/l	✓
Iodine	42.51 µg/l	64.64 µg/l	-22.13 µg/l	↓
Barium	5.49 µg/l	9.94 µg/l	-4.45 µg/l	✓

Molybdenum	5.00 µg/l	11.93 µg/l	-6.93 µg/l	✗
Nickel	0.36 µg/l	0.50 µg/l	-0.14 µg/l	✓
Manganese	n.u	0.99 µg/l		✗
Arsenic	n.u	1.49 µg/l		✓
Beryllium	n.u	0.10 µg/l		✓
Chrome	n.u	0.50 µg/l		✓
Cobalt	n.u	0.10 µg/l		✓
Iron	8.08 µg/l	0.50 µg/l	+7.58 µg/l	✓
Copper	n.u	0.50 µg/l		✓
Selenium	n.u	0.50 µg/l		✓
Silver	n.u	0.10 µg/l		✓
Vanadium	1.29 µg/l	1.49 µg/l	-0.20 µg/l	✓
Zinc	7.82 µg/l	1.99 µg/l	+5.83 µg/l	✓
Tin	n.u	0.50 µg/l		✓

Nutrients	**Value**	**Ideal value**	**Difference**	**Status**
Nitrate	25.98 mg/l	2.00 mg/l	+23.98 mg/l	✗
Phosphorus	9.42 µg/l	14.92 µg/l	-5.50 µg/l	✗
Phosphate	0.03 mg/l	0.04 mg/l	-0.01 mg/l	✗

Pollutants	**Value**	**Ideal value**	**Difference**	**Status**
Aluminium	36.14 µg/l	0.10 µg/l	+36.04 µg/l	✓
Antimony	n.u	0.10 µg/l		✓
Bismuth	n.u	0.10 µg/l		✓

Lead	n.u	0.10 µg/l	✔
Cadmium	n.u	0.20 µg/l	✔
Lanthanum	n.u	n.u µg/l	✔
Thallium	n.u	0.10 µg/l	✔
Titanium	n.u	0.10 µg/l	✔
Tungsten	n.u	n.u µg/l	✔
Mercury	n.u	n.u µg/l	✔

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Recommendations:

Supplement	Priority	Action	Daily dosis	Unit	Days
Brom	Recommended	Dosage	14,70	ml	3
Fluor	Recommended	Dosage	11,20	ml	3
Molybdän	Recommended	Dosage	1,70	ml	2
Mangan	Recommended	Dosage	0,50	ml	1
Iod	Important	Dosage	0,10	ml	2

Additional action: change 3 x 20 % of water with natural seawater or "Absolute Ocean" (weekly cycle)

ATI RECOMMENDES **Phosphorus might be limited, remove GFO (if in use), add phosphorus!**